YIKES!! My Math Class at the University is ONLINE!!

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Online Homework in general...

What are your questions/concerns?
\[
\frac{b^6 - 8b}{9b^2 - 15b + 4} + \frac{2b^3 - b}{9b^2 - 15b + 4} - \frac{3b - 6b^2}{9b^2 - 15b + 4}
\]

\[\Rightarrow \frac{b^2 - 8b + 2b^3 - b - (3b - 6b^2)}{9b^2 - 15b + 4}\]

\[\Rightarrow \frac{b^2 - 8b + 2b^3 - b - 3b + 6b^2}{9b^2 - 15b + 4} \Rightarrow \frac{9b^2 - 12b}{9b^2 - 15b + 4}\]

\[\Rightarrow \frac{3b(3b - 4)}{(3b - 1)(3b^2 + 1)} = \frac{3b}{3b - 1}\]

\[-\frac{12b}{3b - 1}\]

1. \[x^2 - 5 + 11 + 6x\]

\[\frac{x^2 - 7x - 18}{18 + 7x - x^2} \Rightarrow \frac{11 + 6x}{18 + 7x - x^2 - 1}\]
17. a) Domain: \( \{ x \mid x \text{ is a real #} \} \)
  b) Range: \( \{ y \mid y \geq -1 \} \)
  c) \( f(-3) = 4 \)
  d) \( f(x) = 3 \rightarrow 2b \)
  e) \( (3, 0), (5, 0) \)
  f) \( (0, 4) \)
  g) \( f(x) < 0 \rightarrow \{ x \mid 2 < x < 5 \} \)
  h) \( f(-8) \) is positive

18. \( y - 6 = \frac{5}{y} \)

\[ \begin{align*}
  y - 7 + \frac{7}{y} & \rightarrow \frac{y^2 - 6y - 5}{y^2 - 3y + 7}
\end{align*} \]
Are the students truly alone??

- Help is available but we don’t call mom!!
  - 140/141/142 SMI
  - 150 Lab 449
  - All math Carver 385
  - Math 10 Wednesdays+ in Carver 379
Benefits that I see as an instructor:

- Limits copying
- Supports my high expectations for correct answers
- Student ownership of learning
MyMathLab is a tool to aid in my student’s learning.....

- ....a very powerful tool that enables me to spend my time on students and instruction...
How do you spend your time?

- Planning
- Teaching
- Giving written feedback
- Communicating with students
How do I spend my time?

- Planning

- Teaching
  - With MyMathLab providing support when students need help after class is over

Giving Feedback
  - With MyMathLab providing immediate problem by problem feedback as well as a “button” to email me!

Communicating with students
  - Very specific and easily accomplished with MyMathLab.
Immediate Feedback

MyMathLab was very helpful in doing homework assignments. It helps you to see how you are doing as you go along, versus finding out you failed after turning your homework in. I also like the step-by-step “Help me solve this” tool. It breaks the problem down well so you can see, exactly, each step you need to take.
MyMathLab changes student practice.
I don’t think I would have understood the material without using mymathlab. I liked that I was able to perform similar exercises of math problems. This helped me to retain more knowledge.
And from Marzano’s Classroom Instruction that Works ..

“The most powerful single modification that enhances achievement is feedback.”
(p. 96)
MyMathLab is a tool to aid in my student’s learning.....

- ....a very powerful tool that enables me to spend my time on students and instruction...
Let’s

take a look at MyMathLab and some of it’s features....

....as a student!
Math 150 learning material

Personalized Learning #1

- Honors student knowledge and skills before they practice.
- Preassess before doing homework…
Preasses and practice “prep skills”

...what is needed before instruction.
Not an all or nothing

- MML is a tool

- I have options for “Other” assignments added to Gradebook...
  - Written assignments
  - Projects

- Other instructors use MML for certain practice and other strategies for other learning
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The Gradebook as a Tool...

- Item Analysis
- Sort
- Find and email
- Export and Advanced Export
- Manage Incompletes
- Drop Lowest Score

....and students can develop ownership for how they are doing!
Something that I did differently was that I went through all of the problems on my study plan instead of just going through some of them. I feel that the study plan really helps me work on the problems that I didn't understand at first. When preparing for Exam 2, I am going to go through all of the problems in my study plan.
So what about the Study Plan?

- Can edit...........
- Can use...........
- Let’s go there in our Demo Course...
I have learned a lot with the use of MyMathLab. The “help me solve this problem” has been especially useful. When I get stuck on a problem, this gets me “unstuck.” The being able to review what I did wrong on my homework, test, or quizzes makes it easier to learn how to fix what when wrong.
What do the students say?

- Mymathlab was very helpful w/learning the criteria. I hope to never have to take another math class and not use mymathlab. There wasn’t anything I disliked about it. I think learning w/out mymathlab would’ve taken alot more time + effort and I wouldn’t have comprehended the math as well.
MyMathlab has helped me a lot. I especially liked how the tutorials of the problems, and also the format of the website; makes navigation easy. I enjoy this format and style of teaching a lot more than regular math course.
A question often asked...

- What might high schools do better to prepare students for online learning?
- Develop more independent learning skills
  - Teacher not the only way to learn but is one very fine way!
  - Risk taking
  - Know that successful, bright students ask questions!
  - Others?
Thank You!